

United States Environmental Protection Agency Washington, DC 20460

Notice of Arrival of Pesticides and Devices

Send Completed Form to Appropriate Regional Office Listed in the Instructions for this Form.

OMB Control No. 2070-0020 Approval Expires 11/30/2016

Note: Read Instructions before completing form. Part I: To Be Completed by Importer of Record or Licensed Customs Broker 1. Name and Complete Address of Licensed Customs Broker 2. Name and Complete Address of Importer of Record Expeditors International Attn: Brynn Wisz Nufarm Americas Inc. 11901 South Austin Avenue 849 Thomas Drive Alsip, IL 60803 T:708-377-1330 Bensenville, IL 60106 T:630-616-2318 ⋉ Return Form to this Address Return Form to this Address 4. EPA Registration Number 5. EPA Producer Establishment No. 3. Name and Complete Address of Shipper 35935-46 83807-CHN-001 Sichuan Leshan Fuhua Tongda Agro Chemical 6. Brand Name of Product Tech Co. Ltd. Qiaogou Road Wutonqiao District GLYPHOSATE TECHNICAL Leshan City, Sichuan, China 614800 7. Active Ingredients and Percentage of Each N-(phosphonomethyl)glycine 95% 10. Total Net Weight 9. Quantity 11. Country of Origin 8. Unit Size |270 bags|270,000 Kgs| 1,000 KG China 12. Port of Entry 13. Name and Complete Address of Carrier Chicago, Illinois Hanjin Haiphong 14. Entry Number 15. Anticipated Entry Date 231-8015989-3 3/27/14 17. Location of Goods for Examination after Importation I assert that information constituting Confidential Business Information is shown in the above blocks numbered: (Note: Blocks 4, 5, Nufarm Americas, Inc. c/o Jacobson Warehouse 6, 7 are not entitled to CBI treatment-see Instructions) 21399 Torrence Ave. Sauk Village, IL 60411 P: 708-753-0396 18. To be Completed for Pesticides without an EPA Registration Number (The following information is optional, but may expedite processing of the Notice of Arrival. Check all that apply and provide additional information as indicated) 18a. A pesticide transferred between registered establishments operated by the same producer. Domestic Producer Establishment Number: 18b. A pesticide transferred between registered establishments not operated by the same producer. Domestic Producer Establishment Number EPA Registration Number of Product being Formulated, if applicable: ☐ 18c. A pesticide distributed under an Experimental Use Permit. Experimental Use Permit Number: ☐ 18d. A pesticide distributed for research and development purposes without an Experimental Use Permit. 18e. A pesticide transferred solely for export. Domestic Producer Establishment Number: 18f. A pesticide distributed under an emergency exemption. Emergency Exemption Number: 18g. A pesticide transferred for the purposes of disposal. 18h. Other. Provide an explanation including the intended use and a description of why the product is being imported into the United States in the Remarks (block 19).

19. Remarks (Provide additional information here. It is recommended that a copy of the label affixed to the product be submitted with the NOA.).						
			•			
	•					
MANAGEMENT AND	Certific					
		ents thereto are true, accurate, and complet imprisonment or both under applicable law				
20. Printed Name of Importer of Record or	Telephone Number	21. Signature of Importer of Record or Lic	censed Date Signed			
Licensed Customs Broker Susan Wright	708-377-1363	Customs Broker Jusan Wuxt	: 3/21/14			
- Joan Main		//	1 3/2/1/1			
Part II: To	Be Completed by U.S. I	Environmental Protection Agency				
Action to be taken by U.S. Customs and Border	Protection					
Release Shipment Detain for Inspection Release shipment to consignee under bond. Shipment must be held intact pending inspection.						
1 Other (Specify) ENTRY No. 231-8015959-3						
Remarks						
Signature and Title of EPA Official	. ^	<i>M</i>	Date			
(XV _ \ hn	to lom	at Mar	3/24/W			
Part III: To	Be Completed by U.S.	. Customs and Border Protection				
The information shown in Part I was compared with the entry papers for this shipment and no discrepancies were noted. The shipment was handled as instructed by EPA in Part II. Any deviations should be brought to the attention of EPA before releasing shipment and should also be noted in "Remarks."						
Remarks						
Signature of District Director of Customs			Date			
	•					
Paperwork Reduction Act Notice: The esti	mated average time to rea	ad the instructions and complete this fo	orm is 26 minutes. Send			
comments regarding the burden estimate of	or any other aspect of this	collection of information to: Director,	Collection Strategies			
Division, Office of Environmental Informa			e 2822), 1200 Pennsylvania			

GLYPHOSATE TECHNICAL

ACTIVE INGREDIENT:

100.0% 5.0% 95.0% N-(phosphonomethyl)glycine. OTHER INGREDIENTS:

EPA Reg. No. 35935-46

EPA Est. No. 83807-CHN-001

KEEP OUT OF REACH OF CHILDREN DANGER

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en usted en detaile.

(If you do not understand the labe), find someone to explain it to you in detail.)
SEE BELOW FOR FIRST AID AND ADDITIONAL PRECAUTIONARY
STATEMENTS

For Medical Emergencies Only, Call (877) 325-1840 For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300

HAZARDS TO HUMANS AND DOMESTIC ANIMALS PRECAUTIONARY STATEMENTS

CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. HARMFUL IF INHALED. Do not get in eyes or on clothing. Avoid breathing dust. Wear goggles or face shield. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash before reuse.

	FIRST AID
IF IN EYES	Hold eye open and rinse slowly and gently with water for 15
	to 20 minutes.
	 Remove contact lenses, if present, after the first 5 minutes,
	then continue rinsing eye.
	 Call a poison control center or doctor for treatment advice.
IF SWALLOWED	Call a poison control center or doctor immediately for
	treatment advice.
	 Have person sip a glass of water if able to swallow.
	 Do not induce vomiting unless told to do so by the poison
	control center or doctor.
	 Do not give anything by mouth to an unconscious person.
IF INHALED	Move person to fresh air.
	 If person is not breathing, call 911 or an ambulance, then
	give artificial respiration, preferably by mouth-to-mouth, if
	possible.
	 Call a poison control center or doctor for further treatment
	advice.
	HOT LINE NUMBER
Have the product oc	Have the product container or label with you when calling a poison control center or
treatment and entire actuals	prostration

Probable mucosal damage may contraindicate the use of gastric lavage.

ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless this product is specifically identified and addressed in an National Politage Elimination System (NPDES) permit. Do not discharge effilient containing this product into sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL OR CHEMICAL HAZARDS
Solutions of this product should be mixed and stored using only stainless steel, aluminum, fiberglass, plastic and plastic-lined containers.

DO NOT MIX, STORE OR UTILIZE THIS PRODUCT OR SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS

FOR MANUFACTURING USE ONLY STEEL) CONTAINERS OR TANKS. This product or solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explose, causing serious personal injury. If ignited by open flame, spark, welder's forch, lighted digarette or other ignition source.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read the entire label before using this product.

Use only for the manufacturing or formulating of, or repackaging as, an herbicide for use the following crops: Crop Groups 1, 2,34,5,6,15,1112,13,14,15,15,17,13,19, 20, accepted all all all and are ambarellar, asparagus; aternoya, avocado; barnchoo; barnant beleinit, bring, blimbe, blreadmit, bufalo gourd; cacao (cooca) bean, cactus; canistal; canola; carambola (staffull); chaya; chelmoya; cocohu, coffee, corn, condroi, caramstol; canola; custard apple; dates; olderulam; chain; especial; plant, blant; gourd; gotalamy; gladna; inthe, imbu, jaboticabi; jacdfrult, joddes; junebory; kara; kenal; kiwi lasquerella; leucaera; lingoniberry; hongan; lyotes, mango; mango; mango; mangosteur, marmaledoxo; (genlo); madowloan; hinge; moluralin papaya; mustard; noni (Indian malleadox) (genlo); madowloan; hinge; moluralin papaya; passionfult; pesture grasses; pawyaw; peanut; pepper leaf; perpemint; penlita; persimnor; pin ru, pinapplo; pistachio; plantalin; pormegranate; pulsean; quinoa; rambutan; rapo; nose apple; safflower; sala; sapodia; sapote (lads, manay, white); sesame; sorghum (milo); soursop; soybean; spotiacch; watercress; vaxiambu; yacon; teny i, ugif fult; wasabi; water spriach; watercress; waxjambu; yacon;

For use in the following glyphosate-tolerant crops: Roundup Ready Alfalfa: Roundup Ready Candla (String Varieties); Roundup Ready Candla (White Varieties); Roundup Ready Cann; Roundup Ready Com 2. Filed Com Hybrids with Roundup Ready 2 Technology: Roundup Ready 2 Technology: Roundup Ready Cotton; Roundup Ready Piec Otton; Roundup Ready Ready 2 Technology: Roundup Ready Supplean; Roundup Ready Sweet Com Hybrids with Roundup Ready 2 Technology.

For the following uses: bermudagrass release, broadcast and spot weed control, chemical mowing, cut stump application; hollow stem injection; higherino and frill; time and-edge, furigrass renovation; sile sys, lanes, trails & access roads; abarrined following siles: alligheds aliporits; alleys, lanes, trails & access roads; apartment following siles: alligheds aliporits; alleys, lanes, trails & access roads; apartment complexes; aquatic siles; accurd commercial or industrial structures or outbuildings; around ornamental trees & shouks; bara ground; beaches; campgrounds; commercial sites; construction siles; CRP land; dich banks; committing sex, denselve; indexelves; a rangs, by dichose & canals; farmsteads; farnose & fencewow; firebreaks; forestry, golf courses; gravel yards; habital restoration & management areas; highways & roadsides (including aprons, medians; gandrals; & firth of ways); industrial plant sites; industrial areas; indicape areas; landscape areas; lumber yards; mulched areas; natural areas; non-tood tree, shouk, wire, and ornamentals production sites; nurseries; pastures; partial and trails; spidies areas; landscape areas; south ornamental plants; railcoad rights-of way; alidoads; rangelands; recreation areas and ornamental plants; railcoad rights-of way; pallocals; rangelands; accounting and grass seed production tility rails; es; urcopped farmstead areas; undired areas; randings and areas; and areas; and plants; and areas and ornamental plants; railcowed resear; remained areas; undired areas; un agricultural areas; vacant tots, walkways; wastolands; wildlife food plots; wildlife habitat areas; woody brush and trees; and other related sites.

This product may be used to formulate products for any additional uses not listed on this label if the formulator, user group, or grower has compiled with U.S. EPA data submission requirements regarding the support of such use(s).

This product may be formulated for products to be used for experimental purposes that are in compliance with FIFRA.

STORAGE AND DISPOSAL

Do not contaminate water, food or faed by storage or disposal.

PESTICIDE STORAGE: Keep container closed to prevent spilar and contamination.

PESTICIDE DISPOSAL: Wastes of this product may cause ineversible eye damage and may be dangerus. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to the label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING AND DISPOSAL: (This product is available in multiple containers. Follow the container disposal instructions below that apply to your container

Nonnefillable Containers Without Outer Bag; Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and rapping sides and bottom to loseen clinging particles. Empty residue into processing equipment, then dispose of liner in a sanitary landili or by incineration if allowed by state and local authorities, by burning if burned stay out of smoke.

Nornefillable Containers With Outer Bag: Nornefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clining particles. Empty residene into processing equipment, then dispose of liner in a canitary particles. Empty residene into processing equipment, then dispose of liner in a canitary particles. Empty residenesition if allowed by state and local authorities, by burning. If burned stay out of smoke. Offer the outer bag for recycling, if available.

WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT COOKINGTERT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE CONSISTERISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRAWITES, GILNRAWITES, OR REPRESENTATIONS OF ANY KIND TO BURSE ON USERIES OF IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT FOR ANY PARTICULAR TRADE USAGE, UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE RESENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYCER OR USER THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYCE OF THE MANUFACTURER OR SELLER AND ASSUMED BY BUYCE OR USER THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYCE, WHAN WAN TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

LIMITATION OF LIABILITY

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE, OF PENALTING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL, TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMINIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR RISING OUT OF THE MISSE, OR FALLURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYERS OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURERS OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES.

NOT EXCREDING THE COST OF THE PRODUCT.

If you do not agree with or do not accept any of the directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Selfer, and the purchase price will be refunded.

(RV091713)

MADE IN CHINA

NET WEIGHT: 2204.6 LB (1000 KG)

4020 Aerial Center Parkway, Morrisville, NC 27560 **NUFARM LIMITED** Manufactured For





For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night: 1-800-424-9300. For Medical Emergencies Only, Call 1-877-325-1840.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Glyphosate Technical NUP-07163

Synonyms:

Glyphosate; N-(phosphonomethyl) glycine

EPA Reg. No.:

35935-46

Company Name:

Nufarm Limited

4020 Aerial Center Parkway

Morrsiville, NC 27560

Date of Issue:

December 11, 2013

Supersedes:

October 21, 2011

Sections Revised:

2. HAZARDS IDENTIFICATION

Emergency Overview:

Appearance and Odor: White solid with slight odor.

Warning Statements: Keep out of reach of children. DANGER. CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. HARMFUL IF INHALED. Do not get in eyes or on clothing. Avoid breathing dust. Wear goggles or face shield. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash before reuse.

Potential Health Effects:

Likely Routes of Exposure: Eye and skin contact.

Eve Contact: Causes substantial but temporary eye injury.

Skin Contact: Slightly toxic based on toxicity studies.

Ingestion: Slightly toxic based on toxicity studies. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

Inhalation: Low inhalation toxicity. Inhalation of dusts may cause coughing and sneezing.

Medical Conditions Aggravated by Exposure: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

See Section 11: TOXICOLOGICAL INFORMATION for more information.

Potential Environmental Effects: Available data on similar formulations suggest that this product would be slightly to moderately toxic to aquatic organisms and practically non-toxic to avian species, honeybees and earthworms.

See Section 12: ECOLOGICAL INFORMATION for more information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT

CAS NO.

% BY WEIGHT

N-(phosphonomethyl) glycine Other Ingredients

1071-83-6

95.0

5.0

4. FIRST AID MEASURES

If **in Eyes:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

If on Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

Flash Point: Not applicable

Autoignition Temperature: Not applicable

Flammability Limits: Not applicable

Extinguishing Media: In case of fire, use water (flood with water), dry chemical, carbon dioxide, or alcohol foam.

Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full fire-fighting turn out gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Unusual Fire and Explosion Hazards: If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplies. Dispose of fire control water later. This product reacts with galvanized steel or unlined steel (except stainless steel) to produce hydrogen gas that may form a highly combustible gas mixture which could flash or explode.

Hazardous Decomposition Materials (Under Fire Conditions): May produce gases such as oxides of carbon, nitrogen, and phosphorous.

National Fire Protection Association (NFPA) Hazard Rating:

Rating for this product: Health: 2 Flammability: 0 Reactivity: 0

Hazards Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

Methods for Containment: Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.

Methods for Cleanup and Disposal: If dry, sweep or scoop up material and place into container for disposal. If wet, pump any free liquid into an appropriate closed container. Wash area with strong industrial detergent and water, absorb and sweep into container for disposal. Decontaminate tools and equipment following cleanup. See Section 13: DISPOSAL CONSIDERATIONS for more information.

Other Information: Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

7. HANDLING AND STORAGE

Handling:

Do not get in eyes or on clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Solutions of this product should be mixed and stored using only stainless steel, aluminum, fiberglass, plastic or plastic-lined containers. DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

Storage:

Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Keep container closed to prevent spills and contamination.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

Personal Protective Equipment:

Eye/Face Protection: To avoid contact with eyes, wear face shield, goggles or safety glasses with front, brow and temple protection. An emergency eyewash or water supply should be readily accessible to the work area.

Skin Protection: To avoid contact with skin, wear long pants, long-sleeved shirt, socks, shoes and chemical-resistant gloves. An emergency shower or water supply should be readily accessible to the work area.

Respiratory Protection: Not normally required. If vapors or mists exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides. General Hygiene Considerations: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

Exposure Guidelines:

	OSHA		ACGIH		
Component	TWA	STEL	TWA	STEL	Unit
Glyphosate	NE	NE	NE	NE	

NE = Not Established

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: White solid with slight odor.

Boiling Point:

Decomposes @ 200°C

Density:

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1.66 g/cc

Evaporation Rate:

Not applicable Not applicable

Freezing Point:

2.14 (1% solution)

Solubility in Water:

Specific Gravity:

Viscosity:

Vapor Density:

Not determined Not applicable

Soluble

Vapor Pressure:

Not applicable Not applicable

Note: Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under normal handling and storage conditions.

Conditions to Avoid: Excessive heat. Do not store near heat or flame.

Incompatible Materials: Strong oxidizing agents: bases and acids. This product reacts with galvanized steel or unlined steel (except stainless steel) to produce hydrogen gas that may form a highly combustible gas mixture which could flash or explode.

Hazardous Decomposition Products: Under fire conditions, may produce gases such as oxides of carbon, nitrogen, and phosphorous.

Hazardous Reactions: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicological Data for Glyphosate Technical

Data from laboratory studies conducted on a similar, but not identical, formulation:

Oral: Rat LD₅₀: >5,000 mg/kg

Dermal: Rabbit LD₅₀: >5,000 mg/kg

Eye Irritation: Rabbit: Moderately to severely irritating.

Skin Irritation: Rabbit: Non-irritating

Subchronic (Target Organ) Effects: Repeated overexposure to glyphosate may decrease body weight gains and effects to liver.

Carcinogenicity / Chronic Health Effects: Prolonged overexposure to glyphosate may cause effects to the liver. There was no evidence of carcinogenicity in animal studies using glyphosate. EPA has given glyphosate a Group E classification (evidence of non-carcinogenicity in humans).

Reproductive Toxicity: In laboratory animal studies with glyphosate, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

Developmental Toxicity: In animal studies, glyphosate did not cause birth defects in animals; other effects were seen in the fetus only at doses which caused toxic effects to the mother.

Genotoxicity: Glyphosate has produced no genetic changes in a variety of standard in vitro (bacterial cells) and in vivo tests using animals.

Assessment Carcinogenicity: None listed with ACGIH, IARC, NTP or OSHA.

See Section 2: HAZARDS IDENTIFICATION for more information.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Data on Glyphosate Technical:

96-hour LC₅₀ Bluegill:

120 mg/l

Bobwhite Quail 8-day Dietary LC₅₀:

>4,500 ppm

96-hour LC₅₀ Rainbow Trout: 48-hour LC₅₀ Daphnia:

86 mg/l 780 mg/l Mallard Duck 8-day Dietary LC₅₀: >4,500 ppm

Environmental Fate:

In the environment glyphosate adsorbs strongly to soil and is expected to be immobile in soil. Glyphosate is readily degraded by soil microbes to AMPA (aminomethyl phosphonic acid) that is further degraded to carbon dioxide. Glyphosate and AMPA are unlikely to enter ground water due to their strong adsorptive characteristics. Terrestrially-applied glyphosate has the potential to move into surface waters through soil erosion because it may be adsorbed to soil particles suspended in the runoff. Aquatic applications registered for certain formulations may also result in glyphosate entering surface waters. Complete degradation is slow, but dissipation in water is rapid because glyphosate is bound in sediments and has low biological availability to aquatic organisms. These characteristics suggest a low potential for bioconcentration in aquatic organisms and this has been verified by laboratory investigations of glyphosate bioconcentration in numerous marine and freshwater organisms with and without soil. The maximum whole body bioconcentration factors for fish were observed to be less than 1X. Bioconcentration factors for sediment dwelling mollusks and crayfish tended to be slightly higher, but were always less than 10X. In addition, any residues accumulated in organisms were rapidly eliminated.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with application Federal, state or local procedures.

Container Handling and Disposal:

Nonrefiliable Containers Without Outer Bag: Nonrefiliable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into processing equipment, then dispose of liner in a sanitary landfill or by incineration if allowed by state and local authorities, by burning. If burned stay out of smoke.

Nonrefillable Containers With Outer Bag: Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into processing equipment, then dispose of liner in a sanitary landfill or by incineration if allowed by state and local authorities, by burning. If burned stay out of smoke. Offer the outer bag for recycling, if available.

Refillable Containers: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with pump 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. An empty container retains product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. Completely empty package into formulation equipment. This package may be returned for refilling with this product. If not refilled, dispose of empty package in a sanitary landfill or by incineration as applicable.

14. TRANSPORTATION INFORMATION

DOT: Not Regulated

IMDG: Not Regulated

IATA: Not Regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations:

TSCA Inventory: This product is exempted from TSCA because it is solely for FIFRA regulated use.

SARA Hazard Notification/Reporting:

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370): Immediate

Section 313 Toxic Chemical(s): None

Reportable Quantity (RQ) under U.S. CERCLA: None

RCRA Waste Code: None

State Information:

Other state regulations may apply. Check individual state requirements.

California Proposition 65: Not listed

16. OTHER INFORMATION

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-ACCEPTED PRODUCT LABELING (attached to and accompanying the product container). This MSDS provides important health, safety and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of Federal law to use a pesticide product in any manner not prescribed on the EPA-accepted label.

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